

UNITED STATES DEPARTMENT OF COMMERCE **Patent and Trademark Offic**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	
09/484,2	259 01/18	/00 COATES	D	MERCK1883-C	
-		٦		EXAMINER	
		MMC2/0509			
Millen V	Millen White Zelano & Branigan P. C.		MAI	MALINOWSKI W	
		d Suite 1400	ART UNIT	PAPER NUMBER	
	on VA 22201				
			28	71	
			DATE MAILED):	
				05/09/00	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

•-		A				
	Applicati n No.	Applicant(s)				
Office Acti n Summary	09/484,259	COATES ET AL.				
	Examiner	Art Unit				
	Walter Malinowski	2871				
- The MAILING DATE f this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE $\underline{3}$ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.						
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Status 						
1) Responsive to communication(s) filed on <u>18 January 2000</u> .						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claims are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are objected to by the Examiner.						
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. § 119						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).						
a) All b) Some * c) None of the CERTIFIED copies of the priority documents have been:						
1. ☐ received.						
2. received in Application No. (Series Code / Serial Number)						
3. received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).						
Attachment(s)						
 14) ⊠ Notice of References Cited (PTO-892) 15) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 16) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	18) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Europe on April 14 1998. It is noted, however, that applicant has not filed a certified copy of the European application as required by 35 U.S.C. 119(b).

Information Disclosure Statement

The information disclosure statement filed April 18, 2000, fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 6, 9, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kato et al. (Kato), U.S. Patent No. 5,745,205.

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Kato discloses a liquid crystal film or layer with homeotropic alignment characterized in that the homeotropic alignment is achieved by an aligning layer on a substrate and that the aligning layer is an inorganic layer (col. 2, lines 55-65; col. 6, lines 10-53).

Claims 1, 6, 7, 9, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Scherer et al. (Scherer), U.S. Patent No. 5,880,801.

Scherer discloses a liquid crystal film or layer with homeotropic alignment characterized in that the homeotropic alignment is achieved by an aligning layer on a substrate and that the aligning layer is an inorganic layer (col. 4, lines 44-60).

Claims 1, 5, 9, and 10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ma et al., U.S. Patent No. 5,056,898.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Scherer et al. (Scherer), U.S. Patent No. 5,880,801.

Scherer discloses a liquid crystal film or layer, but does not disclose the aluminum coating is a medium or high density coating.

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Medium or high density coatings of aluminum are well known and, to produce good coverage by the aluminum, would have been obvious to use.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Scherer or Kato.

Scherer or Kato disclose a liquid crystal film or layer, but do not disclose that the substrate is a plastic sheet or film.

Plastic sheets and films as substrates are well known in the liquid crystal display art and, to reduce breakage, would have been obvious to use.

Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scherer or Kato as applied to claims 1, 6, 9, and 10 above, and further in view of Ohnishi et al. (Ohnishi), U.S. Patent No. 5,601,884.

Sherer and Kato disclose a liquid crystal film or layer with homeotropic alignment, but do not disclose that the substrate is a polymeric material nor that the substrate prior to coating with the alignment layer or its precursor is subjected to a corona discharge.

Ohnishi discloses substrates of polymeric material (col. 14, lines 41-48).

It would have been obvious to use a polymer substrate, as taught by Ohnishi, in the device of either Scherer and Kato to reduce breakage.

Ohnishi discloses "in case a polymer film is used as substrate, the polymer film or surface of the surface-treated polymer film may be further subjected to a treatment for increasing uniform film thickness of the film by a known surface reforming technique such as ... corona discharge" (col. 17, lines 16-23).

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Therefore, it would have been obvious to use corona discharge, as taught by

Ohnishi, in the device of either Scherer or Kato.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Walter Malinowski whose telephone number is (703)

308-3172. The examiner can normally be reached on M-F 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Sikes can be reached on (703) 308-4842. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7721

for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

wjm

May 6, 2000

Watter Malinowski Walter Malinowski

Primary Examiner

Group Art Unit 2871